

CLAIM AMENDMENTS

1. (Cancelled)

2. (Currently Amended) ~~Motor~~ A motor vehicle according to claim ~~[[1]]~~ 28, wherein ~~a part of~~ the sensors ~~(9, 10, 14, 15)~~ represents includes an optical sensor system ~~[[8]]~~.

3. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 2, wherein the optical sensor system ~~(8) is designed with~~ includes an optical light emitting and receiving device ~~(14, 15)~~, which forms at least ~~[[on]]~~ one light plane ~~(16-21)~~ around the range of motion of the ~~soft~~ convertible top ~~[[2]]~~ and detects an intervention into the light plane with the aid of a reflection detection medium.

4. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 3, wherein a laser is used as the light source of the light emitting and receiving device ~~(14, 15)~~.

5. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 3, further comprising claims 3 or 4, wherein an electronic analysis unit ~~is planned~~, which uses the output signals of the reflection detection medium to calculate the distance and/or the angle of an intervention into the light plane (16 - 21).

6. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 3 ~~one of claims 3 through 5~~, wherein at least one light plane ~~(19, 20, 21)~~ is formed on a side of the ~~soft~~ convertible top mechanism ~~[[4]]~~ facing ~~[[the]]~~ a passenger compartment ~~[[12]]~~.

7. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 3 ~~one of claims 3 through 6~~, wherein at least one light plane ~~(16, 17, 18)~~ is formed ~~created~~ on a side of the convertible ~~soft~~ top mechanism ~~[[4]]~~ facing the outside of the vehicle.

8. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 2~~one of claims 2 through 7~~, wherein the optical sensor system includes ~~(8) is designed with~~ at least one image sensor ~~(9, 10), in particular a camera~~, which monitors the range of motion of the convertible soft top mechanism ~~[(4)]~~.

9. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 8, further comprising ~~wherein~~ an electronic analysis unit that detects an intervention into the range of motion of the convertible soft top mechanism by difference image analysis~~(4) using the evaluation of the difference of images~~.

10. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 8~~claims 8 or 9~~, wherein at least one image sensor ~~[(9, 10)]~~ is also allocated to a device that monitors the vehicle interior ~~[(12)]~~ and/or the position of occupants.

11. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 2~~one of claims 1 through 10~~, wherein the sensor system includes at least one capacitive sensor ~~[(22 - 25)]~~.

12. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 11, wherein an intervention ~~obstruction~~ situation is detected when a selection of several capacitive sensors ~~[(22 - 25)]~~ is responding, ~~in particular one sensor or two adjacent sensors~~.

13. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 1~~claims 11 or 12~~, wherein at least one capacitive sensor ~~[(22 - 25)]~~ that is used to recognize an intervention ~~obstruction~~ situation is located in the area of ~~[[the]]~~ elements ~~[(26, 27)]~~ that are connected with hinges of a convertible ~~[[soft]]~~ top linkage and/or a tensioning bow ~~retaining clip (28)~~ and/or a convertible soft top compartment cover ~~[(31)]~~ and/or a windshield frame ~~panel (11)~~ and/or an area next to a window ~~[(29)]~~.

8. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 2~~one of claims 2 through 7~~, wherein the optical sensor system includes ~~(8) is designed with~~ at least one image sensor ~~(9, 10), in particular a camera~~, which monitors the range of motion of the convertible soft top mechanism ~~[(4)]~~.

9. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 8, further comprising ~~wherein~~ an electronic analysis unit that detects an intervention into the range of motion of the convertible soft top mechanism by difference image analysis~~(4) using the evaluation of the difference of~~ images.

10. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 8~~claims 8 or 9~~, wherein at least one image sensor ~~[(9, 10)]~~ is also allocated to a device that monitors the vehicle interior ~~[(12)]~~ and/or the position of occupants.

11. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 2~~one of claims 1 through 10~~, wherein the sensor system includes at least one capacitive sensor ~~[(22 - 25)]~~.

12. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 11, wherein an intervention ~~obstruction~~ situation is detected when a selection of several capacitive sensors ~~[(22 - 25)]~~ is responding, ~~in particular one sensor or two adjacent sensors~~.

13. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 1~~claims 11 or 12~~, wherein at least one capacitive sensor ~~[(22 - 25)]~~ that is used to recognize an intervention ~~obstruction~~ situation is located in the area of ~~[(the)]~~ elements ~~[(26, 27)]~~ that are connected with hinges of a convertible ~~[[soft]]~~ top linkage and/or a tensioning bow ~~retaining clip~~ ~~[(28)]~~ and/or a convertible soft top compartment cover ~~[(31)]~~ and/or a windshield frame ~~panel~~ ~~(14)~~ and/or an area next to a window ~~[(29)]~~.

14. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 11 ~~one of claims 11 through 13~~, wherein the capacitive sensor ~~comprises~~ comprises ~~((22 - 25))~~ that is used to recognize an intervention ~~obstruction~~ situation is located between a sealing section and/or a trim part and its support.

15. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 11 ~~one of claims 11 through 14~~, wherein the capacitive sensor comprises ~~((22 - 25))~~ is designed like a film, whereby with electrodes ~~((32))~~ are located on foil material.

16. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 15, wherein air is planned ~~as the dielectric of the capacitive sensor~~ as the dielectric of the capacitive sensor ~~(((22 - 25)))~~.

17. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 11 ~~one of claims 11 through 16~~, wherein the capacitive sensor ~~comprises~~ comprises ~~((22 - 25))~~ is connected to an automatically readjusting threshold switch ~~comprises~~ comprises ~~(((37)))~~.

18. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 28 ~~one of claims 1 through 17~~, wherein the sensor system includes at least one sensor for detecting ~~((38))~~ that is used to detect the power consumption of a convertible top drive ~~comprises~~ comprises ~~(((6)))~~, which is connected to an electronic analysis unit, by means of which an intervention ~~obstruction~~ situation can be detected by comparing the present current flow to a characteristic change in the current flow or by using mathematically calculated intervention ~~obstruction~~ criteria.

19. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 2 ~~one of claims 2 through 18~~, wherein comprises ~~comprises~~ ~~(((S9)))~~ is started when a fault is recognized in the optical sensor system ~~comprises~~ comprises ~~(((8)))~~.

20. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 28 ~~one of claims 1 through 19~~, wherein in a normal mode the function of the sensor system is checked, and if a waiting time is started in normal mode ~~comprises~~ comprises ~~(((S3)))~~ after the sensor system ~~comprises~~ comprises ~~(((was)))~~ is found to be functional, a waiting time ~~comprises~~ comprises ~~(((S3)))~~.

is started when an intervention ~~obstruction~~ situation has been recognized and the soft top motion is stopped and/or reversed; and wherein the system checks during the waiting time ~~normal mode~~, whether the intervention ~~obstruction~~ situation is still present, and wherein a ~~whereby~~ safety mode ~~[[9]]~~ is started if the intervention situation is still present ~~result of the system is positive~~.

21. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 28 ~~one of claims 1 through 20~~, wherein a processing function ~~[[S11]]~~ is started in a safety ~~in safety~~ mode for closing or opening ~~(S9) that is used to close or open the soft~~ the convertible top ~~[[2]]~~ with reduced speed (v_{min}), during which the system uses an inquiry function ~~[[S12]]~~ of an electronic analysis unit to check whether an intervention ~~obstruction~~ situation is present, wherein ~~whereby~~ a processing function ~~[[S13]]~~ that stops and/or reverses the convertible ~~soft~~ top motion is started if the result of the inquiry ~~system~~ is positive.

22. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 28 ~~one of claims 1 through 21~~, wherein the reaction whether to continue the convertible ~~soft~~ top movement with reduced speed (v_{min}) or to stop or reverse the convertible ~~soft~~ top motion takes place in relationship to the intervention ~~obstruction~~ that is being recognized.

23. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 28 ~~one of claims 1 through 22~~, wherein after an automatic start of the convertible top movement ~~the system carries out~~ an inquiry function is started for ~~after~~ a fault in the detecting ~~detection~~ device ~~[[7]]~~ or for ~~after~~ detecting an intervention ~~obstruction~~ situation after an automatic start ~~[[S1]]~~ of the soft top movement.

24. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 28 ~~one of claims 1 through 23~~, wherein a continuous convertible ~~soft~~ top position recognition is provided ~~(39) has been planned~~ to monitor the position of the convertible ~~soft~~ top ~~[[2]]~~, which determines the position of a defined element ~~(43, 44, 45)~~ of the convertible ~~soft~~ top mechanism ~~[[4]]~~ using an acceleration sensor ~~(40, 41, 42)~~, which measures an ~~calculates~~ actual acceleration in relationship to the acceleration of free fall.

25. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 24, wherein several acceleration sensors ~~(40, 41, 42)~~ are located on elements ~~(43, 44, 45)~~ of the convertible ~~soft~~ top mechanism ~~[[4]]~~ and connected to an electronic analysis unit ~~[[46]]~~, which uses the signals of the acceleration sensors ~~(40, 41, 42)~~ to calculate a relative position, which, together with the present information on the vehicle incline, results in the present convertible ~~soft~~ top position.

26. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 28 ~~one of claims 1 through 25~~, wherein the control equipment ~~[[5]]~~ for the control of the convertible ~~soft~~ top motion is equipped with a further ~~another~~ acceleration sensor ~~[[48]]~~ that is used to detect the vehicle's inclination.

27. (Currently Amended) ~~Motor~~ A motor vehicle according to claim 28 ~~one of claims 1 through 26~~, wherein the sensor system includes ~~is part of~~ a rain sensor.

28. (New) A motor vehicle with a movable convertible top, comprising:
control equipment for controlling movement of the convertible top; and
a detection device for recognizing an intervention into the range of motion of the convertible top, the detection device including a sensor system having a plurality of sensors operating according to different measurement principles;

the control equipment being operable, when a problem is recognized with the detection device or in the event of an intervention situation, to control the convertible top in a safety mode during which the convertible top motion continues with reduced speed and power or is stopped or reversed.